#6

april issue

RALEIGH AMATEUR RADIO SOCIETY

RARS

WORLDWIDE FRIENDSHIP

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"Raleigh Amateur Radio Society News"

NEXT MEETING

The next monthly meeting of the RARS will be held Wednesday evening, March 4th at 7:30 PM. Lee Johnson, WA4ZNA, promises something exciting for April Fools day. The meeting will be at the Civil Defense Headquarters in the basement of the North Carolina State Government Administrative Building on 116 West Jones street. Ample parking is available behind the building. Please enter through the back door. Everybody is welcome.

QRM FROM THE EDITOR

And now from the miscellaneous file. (Where have I heard that before?) The March meeting of the Raleigh Amateur Radio Society had the largest attendance of its short history. There were 57 members and guests that signed the register. We were very glad to have two members of the Brightleaf Amateur Radio Club there, Vice President Bob Vadney, WA4HPY, and their "Ham Chatter" editor, Bob Knapp, W4OMW. The BARC held their third anniversary celebration in February. Many of the members are Voice of America employees along with the other ole timers from the Greenville area.

Everyone should read the analysis and appraisal of incentive licensing by FCC's Amateur Division Chief, Everett G. Henry, W3BG, in the March issue of QST (page 60). They realize there are still some inequities in incentive licensing, but he also takes apart the arguments of opponents that fall in three general catagories. So for those who think incentive licensing will just go away, forget it and start studying if you want all amateur privileges. Our club has the means to help, if you will take advantage of them.

Bill McDowell, K4CIA and Tom Martin, K4CQJ, have a problem. Bill is still looking for the dues to be paid up and Tom needs the field day questionaire so he can start his final planning for field day. Everybody can do his share and make their jobs easier and much more pleasant.

W4YDY

RACES AND AMATEUR RADIO

The amateur's outstanding record of organized preparation for emergency communications and performance during all types of emergencies throughout the United States has been largely responsible for the decision of the Federal Government to set up special regulations and set aside special frequencies for use by amateurs in providing auxiliary communications for Civil Defense purposes. These regulations are entitled "Radio Amateur Civil Emergency Services (RACES)" and are contained in Part 97 of FCC Rules.

How do the amateurs in North Carolina participate in this vital public service and to what extent do they contribute? Under the banner, "radio Amateur Civil Emergency Service," amateurs throughout the state are assisting and cooperating with Civil Defense Directors in setting up and manning community, town, city, and county radio networks integrated with Civil Defense emergency functions. Should a war cause a shutdown of routine amateur activities, the "RACES" organizations will be immediately available in the national defense.

In North Carolina today, seventy-six of the one hundred counties have a "RACES" plan for establishing emergency communications which has been approved by the Office of Civil Defense and the FCC. These plans are reviewed on a contiuing basis and updated or modified as required. Within the last twelve months, plans for 12 counties have been updated. There are several in process at present. To implement these plans would require the time, effort, and talent of over one-thousand radio amateurs.

To one not familiar with the "RACES" phase of amateur radio activities, it might appear that the organizations referred to in the preceeding paragraph remain inactive until an emergency occurs. This is not the situation at all. On practically a daily basis, members of "RACES" organizations and radio amateurs who are active in other radio and electronic activities render priceless support to their communities by providing technical guidance, engineering service, emergency message service, communication system support, training facilities, instructors, and many other services too numerous to list here. These countless forms of public service - rendered always without expectation of material reward - make amateur radio an integral part of our way of life.

James W. Denning
Director
N.C. Civil Defense Agency

WELCOME VISITORS

The Raleigh Amateur Radio Society was particularly pleased to number among its visitors at its March 4th meeting, Bob Knapp, W4OMW, and Bob Vadney, WA4HPY. The former is editor of the newspaper of the Brightleaf Amateur Radio Club and the latter is vice-president of that organization. The BRAC numbers about 40 members and is located in Greenville, N.C., a city of 30,000 population in eastern North Carolina and the home of East Carolina University. Bob Vadney reports that two-meter FM has not taken complete hold yet in this area, but that Brightleaf has an active two-meter AM net meeting each Tuesday from 8 to 9 PM on 145.47 mHz and invites any RARS station hearing Greenville to give them a shout.

WA4OTA

NAME TAGS

Desire a handsome black plastic name tag with your name and call in white lettering? Call John Fried, W4WWD. Cost is $1.25.

APRIL 18 LO MEETING

Any interested RARS members are encouraged to attend the League Official meeting in Greensboro on April 18th. It will be at the Sheridan Motor Inn and will run approximately from Noon Saturday to Noon Sunday. This is a fun occasion and a good forum for airing views on league problems as well as a chance to meet a lot of fine fellows. Show your support and interest and plan to attend.

WA4OTA

FIELD DAY

Where is your field-day questionnaire? Only a few have been received. Since our March club meeting put us all in the field day mood, lets get them in and get rolling in high gear. The acquisition of the questionnaires are very important for planning the first field day meeting.

The State Fairgrounds was suggested as a site. It offers many advantages such as parking, antenna height, station separation, bathroom facilities, and is an excellent location for publicity purposes, just to mention a few. The club is checking into this and further information will be given soon.

Tom Martin, K4CQJ
Field Day Chairman

MORE FCC TESTS PASSED BY RARS MEMBERS

Ron McCann, WB4OZI, has passed his Advanced Class exam and Paul and Alan Browne are waiting for their Novice calls. Our Novice and upgrading instructors, Bob Corns, K4MC, John Bargamian, K4VLI, and Bob Johnson, W4CQJ, have done an excellent job. Congratulations to you all.

OFFICIAL BULLETIN #262 FROM ARRL

The Federal Communications Commission has issued a notice of proposed rulemaking, Docket 18802, to raise application and license fees so that its entire budget will be covered by revenues from licenses. League lines in November 1969 QST gave advanced warning of the possibility. Under the proposals, amateur application fees would go to nine dollars for new, renewed, or upgraded licenses, four dollars for modified licenses and 25 dollars for special call signs. Citizens radio service application fees would rise to 19 dollars along with taxicabs, etc., but commercial radio operator fees would stay where they are now. A new television station license could, however, cost as much as $50,000. Comment deadline is April 20 and reply deadline May 11, 1970. ARRL members wishing to express a view on the docket should be in touch immediately with their respective directors as listed on page 8 of QST. Further information will appear in the April issue.

MINI-TECHNICAL REVIEW

March QST brings forth an interesting performance test using identical antenna arrays. No, not the proverbial beam versus quad flap, but proof that height does make a difference, like one or two dB at high frequency. The safety campaign on towers is continued and a neat 12V QRP 40-80M xceiver is presented, useful for recent license hunters who find more and more about transistors on today's examinations. No beta or alpha, no pass. Important to League wheels and others are the redrafted rules of the Commo Dept of the ARRL on pages 58-59. Station activities include our own K4CIA's hunting 5BDXCC and W4KFC's QSO with RARS recently. A really FB issue.

CQ, the late company B for February exposes a simple TR switch on page 25 and shows how to prevent burning out transistors on SSB receivers. Either convert to tubes or use delayed switching.

Another expose of reprehensible waste in government disposal of surplus is presented--a most sad commentary on modern conditions. More cheerfully, the March issue proclaims the success of the launching of the Australis-Oscar satelite and possible inclusion of two ham deals in the mammoth ATS-G satelite to be kicked up by NASA in '73 (year, that is).

Nobody but no one should be hurt by towers this season, i.e., another safety article on tower installation is unfolded. The only casualty expected on tower erection this millienium are the illerate.

HAM magazine for February presents its usual complete coverage of subjects; SSB power supplies, building tilt-over antenna mast, and a quick band-changer for 6- to 2-meters. Dual-band antennas, 5-band linears, and truble shooting oscillators consume the March QSY. All HAM articles just seem to do it all. This magazine is really text book material--top stuff. W1TDY et al. are really with the program.

March 73 comes off the doughboy's back. It really startles the old GI who passed away his time in the service perusing TMs in the pit on the range. The civilian poop between the nostalgic OD covers reveals the usual combat and then a frequency meter using our very own Sensicon Motorola receiver. A truly fine article on rolling your own PCs makes one prepared to throw out all chassis and AWG-A (A for All sizes). A fairly simple approach to switching logic is buried under a misnomer referring to something on surplus buying. If you're lucky enough to have an old AN/GRC 9 around from your WWII ack-ack days, 73 shows you how to convert to 15W on CW. The raison-d'etre for the OD cover is a real good surplus catalog on pages 129-73 (get it? the end!).

March Popular Electronics presents fairly simple data on a phone scrambler, ideal for those uncouth hams babbling on 80M past midnight in 4-letter A3. An interesting portion of the magazine deals with numitron read-out, Lee Johnson's "pieces-of-eight." Only us old timers know that pieces-of-eight had to do with B-beard. For hot poop hunters, English Language Broadcasts around the world are listed on page 92. Want the latest from the folks in Tirania, Albania? Tune in on 7.30 mHz or 9.78 mHz at 7:00 PM EST. Don't ever believe this capitalistic, war-mongering drivel put out by Stateside imperialists from Wall Street. Hear it like it is.

April Radio-Electronics describes a $150 game computer. All you need is 66 ICs. The perennial tool list gives a second part, rather complete, on soldering tools. Practical tips on trouble-shooting SSB car radio problems appear, as does a way to add sound to your movie slides, the Synch Slide (not the move past the XYL to the refrigerator).

April Electronics World fills us in on all types of trimmer capacitors--air dielectrics, polystyrene, ceramic tubulars and discs, glass piston, teflon, air tubular, and U-name it. Professor Seiden has FB poop on the design of LC tuners, including the proverbial reactance chart on page 57.

February IEEE Spectrum presents a fine writing on IC technology, including both digital and analog circuits. A timely piece on data transmission points up the disregard in general by public telephone companies in transmitting data other than audio. More and more, data transmissions are outnumbering A3 QSOs. A thought producer is also "Why Space Broadcast?" on the use of satelites to broadcast TV.

Bert, W4FMN

SCHEDULES WANTED

Two meter schedules would be appreciated by Wilson amateurs. Write J.S. Townsend, W4RIZ, South Douglas Street, Wilson, N.C. 27893. Capability AM or FM vertical or horizontal, VFO. Any schedules are appreciated, particularly with construction-minded VHF men.

FOR SALE

Eico 753 and AC Supply, DX-40 and DX-100. Reasonable price. Call toll free by having operator get Operator 61 at Marshville, N.C. and ask for Bill Porter (WB4GAN) at extension 2700 from 8:30 AM to 4:30 PM Monday through Friday and if not available at that time, please leave a number for a return call.

ANSWER TO 'THOT PROVOKER'

Using the PFs given, the X components of the solution vector are (8 x 0.75) + (12 x 0.8) = 15.6 amperes. OM Pythagoras gives us the square roots of (64-36) and of (144-92.16) or 5.29-7.2 to present a vertical component of -1.91 amperes. So total current becomes 15.6-j1.91 amps. In polar form this is 15.7 amps and since P = E x I, the power used is 120 x 15.7 or 1872 watts. Coffee anyone?

REPORT ON THE NORTH CAROLINA SINGLE SIDEBAND NET DINNER

The North Carolina Single Sideband Net held its annual get-together in Raleigh, N.C. on February 21, 1970. This shindig was designated as a HAM-IN.

In attendance as special guests were the following:

Mr. Vic Clark, Director of the Roanoke Division ARRL, W4KFC; Mr. Phil Wicker, Vice Director of the Roanoke Division, W4ACY; Mr. Calvin Dempsey, North Carolina SCM, WA4UQC; Mr. Albert E. King, Assistant Director of the Roanoke Division, K4TTN; as well as many other field representatives of the ARRL.

This very successful affair was attended by some 120 people and about 100 sat down to the evening meal. Many of the group stayed overnight in the new Holiday Inn Motor Hotel that was recently opened to the public. The building is 20 stories high and circular in shape. A ramp spirals up the outside of the building to provide parking and access to floors. A swimming pool is on the second floor of the ramp. You can see that everyone went round and round.

The dinner gave an opportunity to renew old acquaintences and make new friends. Naturally the socializing lasted into the wee hours of the morning and gave way to a late breakfast for most.

We were very proud of the whole affair because it showed that the group that meets on 3938 can have a real ball and not have anything out of the way happen. It must have had some attraction for Charlie Bowen, W2GY, of Audibon N.J. to come all the way down here to be with us!

Hats off to Herman Jolitz, W4DCQ, and Charlie Brown, K4VLR, for all the fine work. They made the affair a real success and we all look forward to the next one.

Would you believe:

Bob, W4MBO, ran out of gass again? Herman, W4DCQ, drank nothing but brown ice water. Bob, W4HBA, had to park his trailer outside the building because his antenna would not fit under the low roof! Layne, WA4EIM, was sporting a new car. Pete, WA4HUL, bought a new hat for the affair and lost it, but recovered it the next week. Hansome Harry, K4PZL, is quite a swinger. That we all have the prettiest women in the state.

Roger, WA4KWC

October 31, 1970
Roanoke Division
ARRL Convention

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RALEIGH AMATEUR RADIO SOC.

HILTON INN

RALEIGH, No. Carolina

. Exhibits .

. Technical Sessions .

. Traffic Meetings .

. DX Forum .

. QCWA Get-together .

YL-XYL PROGRAMMES

SATURDAY NIGHT BANQUET

AND MANY MANY MORE
CAREFULLY PLANNED
FEATURES & EVENTS TO
make this
A FINE CONVENTION

LETTER TO THE EDITOR

Dear Sir:

I have an ACME Telectronix facsimile machine (send and receive) that I would like to swap or sell. This machine was used originally in news service. It can now be used for two-way fax or for receiving weather satelite pictures. I will be glad to supply information to any interested people. Thank you.

Yours very truly,
N.C. Moseley, W4YVY
2513 Beechwood Drive
Tarboro, N.C. 27886

NORTH CAROLINA SSB NET - 3938 KHZ

Net report for February 1970.
25 sessions recorded.
QNS 819, QTC 78, Time 413 minutes.
NCS Monday WA4SQA; Tuesday WA4YEV; Wednesday K4NYU; Thursday K4NUG; Friday K4ZKQ; Saturday K4TTN; Sunday WB4CON.

The N.C. SSB Net meets daily on 3938 kHz at 7:30 PM local time.

Roger, WA4KWC
Net Manager

CAROLINAS TRAFFIC NET, 3573KHZ
6:45 and 10:00 PM

Reminders:

1. The station that will be RECEIVING a message should pick his frequency (up 5 or down 10) and call the transmitting station. The transmitting station can not know what local QRM there might be at the RECEIVING location.....

2. NCS stations are reminded to always QNY stations up 5 or 10, especially after 7:00 pm, to avoid QRM'ing the WVN at 3570 kHz.

ARRL DIRECTOR Vic Clark, W4KFC, wrote me last month that the FCC would cancel the violation notices issued to three of you regarding the December 11th session of NCN(E). George, WB4GHK, states he has just received his cancellation. Whew!! I have noticed a great improvement in identification procedure. FB.

THE RARS BULLETIN is replacing for us the "NCN Bulletin" which was printed and mailed for free by N.C. Civil Defense Agency. Since the demise of that service by CD your RM has been footing the bill for printing (paper and ink) and mailing whatever Reports and Bulletins you have been receiving. From this point forward I am asking each of you who really wants to keep in touch via the RARS Bulletin to contribute the cost of postage for your copy. That will come to twelve 6¢ stamps each year or 72 cents in cash, whichever is easier on you. The mailing job is being performed by Carl, WB4MLI, 136 Rose Street, Cary, N.C. 27511, so send your stamps or moola to Carl.

LEN, WB4IJH, is now B365078 and living at Co. 067, NTC-RTC, San Diego, California 92133. He says things are great and he will be on leave during April.

RECEIVER MUTING for break-in. On page 38 of March QST there is an article which should be of interest to those who still use separate receivers. This one is readily useable with transmitters which have in them an "output" indicator circuit. Have a look!

CODE PRACTICE PROGRAM from WA1LLB... "Please announce to your net members the forming of an official code practice program. Any station that would be interested in transmitting code practice as an OCTS are asked to contact me by letter or radiogram for further information.

73, John Glover, WA1LLB

Address: Little Fox Lane, Weston, Conn. 06880

There is some time available on 3573 kHz I believe. Anyone interested?

CAROLINAS NET

CN February 1970 Report
CNE 6:45 PM CNL 10:00 PM
3573 kHz

Total Sessions	28
Total Check-ins	318
Average QNI	11.3
Total Net Time	744
Average Net Time	26.5
Different Stations	45
Total Traffic	128
Average Traffic	4.8
Message Rate	.18

This is my first try at making up a net report (excluding the last half-month), so naturally I might have made a few mistakes. If anyone thinks they can do a better job, I dare them to speak up (HI).

It would help me a lot if the NCS would send me the QNS reports dated in GMT. Right now about half are in GMT and the other half in EST. This causes a little over-lap on some and loss of some QNS reports. Also, please try to get them in before the end of the month, because I try to make up the report as soon as the last session is finished.

Charlie, W4PED, asked me to be sure to mention that he sent me the money for the mailing of the bulletin and also a sheet of stamps. This is so you guys in South Carolina won't think he spent it. I'm sure you guys wouldn't get that idea; Charlie is a fine fellow and has done a lot of work for the SC net and this net.

The new net seems to be going along real well except that we are still having trouble getting the NCS to show up. Maybe a good idea would be to have alternatives. What do you think? Let John, W4IRE, know.

Spread the word to everyone you talk to on the air and try to recruit some new members for the net. Some new members now are WB4OZL, Ron, in Raleigh, and WB4NAW, Steve, in Cary.

WB4ETF now has an HT-32 and is going strong on SSB. I've talked to him on SSB and it sounds real good.

WB4MQC is still afraid to get back on the net after that citation. He is just downright chicken. (Sorry Paul)

73 and see you all on the net.

Carl, WB4MLI

TODAY'S QUIZ

Three resistors of 750 ohms, 620 ohms, and 200 ohms are in parallel. The total current is one ampere. What is the applied voltage and what are the branch currents? See OM Kirchhoff.

MISCELLANEOUS

Noted on a project engineer's report: "In a tense atmosphere, the past, present, and future of the project were discussed."

Ham's advice to embryonic writers: "Do not use hyperbole; not one writer in a million, even a ham, can use it effectively."

WA4PEN--What's an example of period furniture? W2GHK--I dunno. WA4PEN--The electric chair--it ends a sentence.

....

WA4OTA--What's the plural of "forget-me-nots?" W4MC--Stupe. Forget-us-not!

.... Bert, W4FMN

STOP PRESS!!!

Paul Brown has just received the callsign WN4PZW, and his son, Allen, is now WN4PZX.

THIS BULLETIN PRINTED COURTESY OF AEROTRON

March 26 '70

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YOUR INSURANCE AGAINST DISASTER
CIVIL DEFENSE

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